```
// Controlling a servo position using a potentiometer (variable resistor)
// by Michal Rinott <http://people.interaction-ivrea.it/m.rinott>

#include <Servo.h>

Servo   myservo;// create servo object to control a servo

int potpin  =  0;// analog pin used to connect the potentiometer
int     val;// variable to read the value from the analog pin

void setup()
{
  myservo.attach(9);  // attaches the servo on pin 9 to the servo object
}

void loop()
{
   val  =analogRead(potpin);            // reads the value of the potentiometer (value bet
   val  =map(val,  0,  1023,  0,  179);// scale it to use it with the servo (value betwee
  myservo.write(val);                  // sets the servo position according to the scaled
  delay(15);                           // waits for the servo to get there
}
```